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[Family Lookup](#)**JP61191544****QUARTZ BASE OPTICAL FIBER**

FURUKAWA ELECTRIC CO LTD:THE

Inventor(s): ;YOSHIDA KAZUAKI ;AZUMA MASAO ;ORIMO KATSUMI ;HARA RYOICHI**Application No.** 60027719 , **Filed** 19850215 , **Published** 19860826**Abstract:**

PURPOSE: To obtain the titled optical fiber having superior transmission characteristics, hydrogen resistance, resistance to radiation, etc. by constituting of a core comprising quartz contg. a specified amt. of Cl_2 , a clad comprising quartz contg. F and/or B_2O_3 , and a support layer.

CONSTITUTION: A porous parent material prepd. to a bar by depositing sooty fine glass particles obtd. from SiCl_4 , etc., by the VAD process is transformed to transparent glass in He atmosphere contg. thionyl chloride to obtain thus a quartz parent material for core contg. $\geq 800\text{ppm Cl}_2$. Then, a glass layer for clad comprising quartz contg. F and/or B_2O_3 is deposited to the outside periphery of the parent material from outside by CVD process. Thes, a quartz tube for support is clad to the outside periphery of the clad layer as a jacket. The parent material for the optical fiber is drawn by a hot drawing means to obtain thus the titled optical fiber 1 consisting of a core 2 comprising quartz contg. $\geq 800\text{ppm Cl}_2$, a clad 3 comprising quartz contg. F and/or B_2O_3 , and a support layer 4.

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